

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 | 1. (Currently amended) A method for sharing a security context for a given
2 | application client between different ~~sessions~~ applications associated with the
3 | given application client on a database server, comprising:
4 | receiving a request at the database server through a database session
5 | between the database server and an application on a database client;
6 | looking up an identifier for ~~an~~ the given application client that identifies a
7 | client of the application, the identifier having been previously associated with the
8 | database session;
9 | using the identifier to look up the security context for the given application
10 | client within a storage area associated with the database server;
11 | wherein the security context includes attributes related to the given
12 | application client;
13 | wherein only applications associated with the given application client and
14 | not applications associated with other clients will receive the security context for
15 | the given client;
16 | receiving the security context for the given application client from the
17 | database client;
18 | inserting the security context into the storage area associated with the
19 | database server so that the security context can be indexed by the identifier for the
20 | given application client;
21 | performing a database operation to satisfy the request;

22 wherein performing the database operation involves enforcing access
23 rights associated with the security context; and
24 | allowing the given application client to use the same security context
25 through a second application and a second database session by:
26 receiving a second request at the database server through
27 the second database session with the second application,
28 | looking up the identifier for the given application client, the
29 identifier having been previously associated with the second
30 database session, and
31 using the identifier to look up the security context for the
32 | given application client within the storage area associated with the
33 database server.

B 1 2. (Original) The method of claim 1, wherein the request includes a
2 database query directed to a database on the database server.

1 3. (Original) The method of claim 2, wherein performing the database
2 operation involves modifying the database query to enforce access rights
3 associated with the security context.

1 4. (Currently amended) The method of claim 1, wherein the identifier for
2 | the given application client identifies a user of the application that is sending the
3 request to the database server.

1 5. (Currently amended) The method of claim 1,
2 wherein the database client is an application server that is sending the
3 request to the database server; and

4 | wherein the identifier for the given application client identifies an
5 application session between the application on the application server and the
6 client of the application.

1 6. (Original) The method of claim 5, further comprising:
2 receiving a request from the application to change the application session
3 associated with the database session; and
4 changing the application session associated with the database session.

1 7. (Original) The method of claim 5, further comprising facilitating
2 connection pooling by periodically changing the application session associated
3 with the database session in order to channel requests associated with multiple
4 application sessions through the database session.

1 8-9. (Canceled).

1 10. (Currently amended) A computer-readable storage medium storing
2 instructions that when executed by a computer cause the computer to perform a
3 method for sharing a security context for a given application client between
4 different sessions-applications associated with the given application client on a
5 database server, the method comprising:
6 receiving a request at the database server through a database session
7 between the database server and an application on a database client;
8 looking up an identifier for ~~an~~ the given application client that identifies a
9 client of the application, the identifier having been previously associated with the
10 database session;
11 using the identifier to look up the security context for the given application
12 client within a storage area associated with the database server;

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13 wherein the security context includes attributes related to the given
14 application client;
15 wherein only applications associated with the given application client and
16 not applications associated with other clients will receive the security context for
17 the given client;
18 receiving the security context for the given application client from the
19 database client;
20 inserting the security context into the storage area associated with the
21 database server so that the security context can be indexed by the identifier for the
22 given application client;
23 performing a database operation to satisfy the request;
24 wherein performing the database operation involves enforcing access
25 rights associated with the security context; and
26 allowing the given application client to use the same security context
27 through a second application and a second database session by:
28 receiving a second request at the database server through
29 the second database session with the second application,
30 looking up the identifier for the given application client, the
31 identifier having been previously associated with the second
32 database session, and
33 using the identifier to look up the security context for the
34 given application client within the storage area associated with the
35 database server.

1 11. (Original) The computer-readable storage medium of claim 10,
2 wherein the request includes a database query directed to a database on the
3 database server.

1 12. (Original) The computer-readable storage medium of claim 11,
2 wherein performing the database operation involves modifying the database query
3 to enforce access rights associated with the security context.

1 13. (Currently amended) The computer-readable storage medium of claim
2 | 10, wherein the identifier for the given application client identifies a user of the
3 application that is sending the request to the database server.

1 14. (Currently amended) The computer-readable storage medium of claim
2 10,

3 wherein the database client is an application server that is sending the
4 request to the database server; and

5 | wherein the identifier for the given application client identifies an
6 application session between the application on the application server and the
7 client of the application.

1 15. (Original) The computer-readable storage medium of claim 14,
2 wherein the method further comprises:
3 receiving a request from the application to change the application session
4 associated with the database session; and
5 changing the application session associated with the database session.

1 16. (Original) The computer-readable storage medium of claim 14,
2 wherein the method further comprises facilitating connection pooling by
3 periodically changing the application session associated with the database session
4 in order to channel requests associated with multiple application sessions through
5 the database session.

1 17-18. (Canceled).

1 19. (Currently amended) An apparatus that facilitates sharing a security
2 context for a given application client between different ~~sessions~~ applications
3 associated with the given application client on a database server, comprising:
4 a receiving mechanism that is configured to receive a request at the
5 database server through a database session between the database server and an
6 application on a database client;
7 wherein the receiving mechanism is further configured to receive the
8 security context for the given application client from the database client;
9 wherein the receiving mechanism is further configured to receive a second
10 request at the database server through a second database session between the
11 database server and a second application;
12 a lookup mechanism that is configured to look up an identifier for an given
13 application client that identifies a client of the application, the identifier having
14 been previously associated with the database session;
15 wherein the lookup mechanism is configured to use the identifier to look
16 up the security context for the given application client within a storage area
17 associated with the database server;
18 wherein the lookup mechanism is further configured to look up the
19 identifier for the given application client, the identifier having been previously
20 associated with the second database session;
21 wherein the lookup mechanism is further configured to use the identifier to
22 look up the security context for the given application client within the storage area
23 associated with the database server;
24 wherein the security context includes attributes related to the given
25 application client;

26 | wherein only applications associated with the given application client and
27 | not applications associated with other clients will receive the security context for
28 | the given client;

29 | a security context initialization mechanism that is configured to insert the
30 | security context into the storage area associated with the database server so that
31 | the security context can be indexed by the identifier for the given application
32 | client; and

33 | a database engine that is configured to perform a database operation to
34 | satisfy the request;

35 | wherein performing the database operation involves enforcing access
36 | rights associated with the security context.

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1 | 20. (Original) The apparatus of claim 19, wherein the request includes a
2 | database query directed to a database on the database server.

1 | 21. (Original) The apparatus of claim 19, wherein the database engine is
2 | configured to perform the database operation by modifying the database query to
3 | enforce access rights associated with the security context.

1 | 22. (Currently amended) The apparatus of claim 19, wherein the identifier
2 | for the given application client identifies a user of the application that is sending
3 | the request to the database server.

1 | 23. (Currently amended) The apparatus of claim 19,
2 | wherein the database client is an application server that is sending the
3 | request to the database server; and

4 | wherein the identifier for the given application client identifies an
5 application session between the application on the application server and the
6 client of the application.

B' 1 24. (Original) The apparatus of claim 23, wherein the receiving
2 mechanism is additionally configured to receive a request from the application to
3 change the application session associated with the database session; and
4 further comprising a changing mechanism that is configured to change the
5 application session associated with the database session in response to the request.

1 25. (Original) The apparatus of claim 24, wherein the changing
2 mechanism is further configured to facilitate connection pooling by periodically
3 changing the application session associated with the database session in order to
4 channel requests associated with multiple application sessions through the
5 database session.

1 26-27. (Canceled).
